

SEQUENCE LISTING

<110> Lombardo, Dominique
Mas, Eric
Sadoulet, Marie-Odile
Panicot-Dubois, Laurence
Bernard, Jean-Paul

<120> Glycopeptides derived from pancreatic structures, antibodies and applications thereof in diagnostics and therapeutics

<130> BKR-107

<150> FR 04 03378
<151> 2004-03-31

<150> FR 04 13428
<151> 2004-12-16

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<170> PatentIn version 3.1

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 Val Tyr Thr Glu Gly Phe Val Glu Gly Val Asn Lys Lys Leu Gly
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 Pro Thr Lys Ala Leu Glu Asn Pro Gln Pro His Pro Gly Trp Gln Gly
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 Thr Leu Lys Ala Lys Asn Phe Lys Lys Arg Cys Leu Gln Ala Thr Ile
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 Thr Gln Asp Ser Thr Tyr Gly Asp Glu Asp Cys Leu Tyr Leu Asn Ile
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Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser Gly			
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Ala Pro Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro			
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Lys Lys Lys Thr Val Val Asp Phe Glu Thr Asp Val Leu Phe Leu Val		
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		96

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aag acc tac gcc tac ctg ttt tcc cat ccc tct cgg atg ccc gtc tac Lys Thr Tyr Ala Tyr Leu Phe Ser His Pro Ser Arg Met Pro Val Tyr	50	55	60	192
ccc aaa tgg gtg ggg gcc gac cat gca gat gac att cag tac gtt ttc Pro Lys Trp Val Gly Ala Asp His Ala Asp Asp Ile Gln Tyr Val Phe	65	70	75	240
ggg aag ccc ttc gcc acc ccc acg ggc tac cgg ccc caa gac agg aca Gly Lys Pro Phe Ala Thr Pro Thr Gly Tyr Arg Pro Gln Asp Arg Thr	85	90	95	288
gtc tct aag gcc atg atc gcc tac tgg acc aac ttt gcc aaa aca ggg Val Ser Lys Ala Met Ile Ala Tyr Trp Thr Asn Phe Ala Lys Thr Gly	100	105	110	336
gac ccc aac atg ggc gac tcg gct gtg ccc aca cac tgg gaa ccc tac Asp Pro Asn Met Gly Asp Ser Ala Val Pro Thr His Trp Glu Pro Tyr	115	120	125	384
act acg gaa aac agc ggc tac ctg gag atc acc aag aag atg ggc agc Thr Thr Glu Asn Ser Gly Tyr Leu Glu Ile Thr Lys Lys Met Gly Ser	130	135	140	432
agc tcc atg aag cgg agc ctg aga acc aac ttc ctg cgc tac tgg acc Ser Ser Met Lys Arg Ser Leu Arg Thr Asn Phe Leu Arg Tyr Trp Thr	145	150	155	480
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ctc acc tat ctg gcg ctg ccc aca gtg acc gac cag gag gcc acc cct Leu Thr Tyr Leu Ala Leu Pro Thr Val Thr Asp Gln Glu Ala Thr Pro	165	170	175	528
gtg ccc ccc aca ggg gac tcc gag gcc act ccc gtg ccc ccc acg ggt Val Pro Pro Thr Gly Asp Ser Glu Ala Thr Pro Val Pro Pro Thr Gly	180	185	190	576
Asp Ser Glu Thr Ala Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro	195	200	205	624
ccc gtg ccg ccc acg ggt gac tcc ggg gcc ccc ccc gtg ccg ccc acg Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr	210	215	220	672
ggt gac tcc ggg gcc ccc ccc gtg ccg ccc acg ggt gac tcc ggg gcc Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser Gly Ala	225	230	235	720
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Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser Gly	
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Ala Pro Pro Val Pro Pro Thr Gly Asp Ala Gly Pro Pro Pro Val Pro	
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Ile Pro Phe Ala Ala Pro Thr Lys Ala Leu Glu Asn Pro Gln Pro His	
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Asp Leu Pro Val Met Ile Trp Ile Tyr Gly Gly Ala Phe Leu Met Gly	
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Ser Gly His Gly Ala Asn Phe Leu Asn Asn Tyr Leu Tyr Asp Gly Glu	
115 120 125	

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Glu Ile Ala Thr Arg Gly Asn Val Ile Val Val Thr Phe Asn Tyr Arg	
130 135 140	

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180 185 190	

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gct gag aag gtg ggt tgc cct gtg ggt gat gcc gcc agg atg gcc cag Ala Glu Lys Val Gly Cys Pro Val Gly Asp Ala Ala Arg Met Ala Gln 245 250 255	768
tgt ctg aag gtt act gat ccc cga gcc ctg acg ctg gcc tat aag gtg Cys Leu Lys Val Thr Asp Pro Arg Ala Leu Thr Leu Ala Tyr Lys Val 260 265 270	816
ccg ctg gca ggc ctg gag tac ccc atg ctg cac tat gtg ggc ttc gtc Pro Leu Ala Gly Leu Glu Tyr Pro Met Leu His Tyr Val Gly Phe Val 275 280 285	864
cct gtc att gat gga gac ttc atc ccc gct gac ccg atc aac ctg tac Pro Val Ile Asp Gly Asp Phe Ile Pro Ala Asp Pro Ile Asn Leu Tyr 290 295 300	912
gcc aac gcc gcc gac atc gac tat ata gca ggc acc aac aac atg gac Ala Asn Ala Ala Asp Ile Asp Tyr Ile Ala Gly Thr Asn Asn Met Asp 305 310 315 320	960
ggc cac atc ttc gcc agc atc gac atg cct gcc atc aac aag ggc aac Gly His Ile Phe Ala Ser Ile Asp Met Pro Ala Ile Asn Lys Gly Asn 325 330 335	1008
aag aaa gtc acg gag gag gac ttc tac aag ctg gtc agt gag ttc aca Lys Lys Val Thr Glu Glu Asp Phe Tyr Lys Leu Val Ser Glu Phe Thr 340 345 350	1056
atc acc aag ggg ctc aga ggc gcc aag acg acc ttt gat gtc tac acc Ile Thr Lys Gly Leu Arg Gly Ala Lys Thr Thr Phe Asp Val Tyr Thr 355 360 365	1104
gag tcc tgg gcc cag gac cca tcc cag gag aat aag aag aag act gtg Glu Ser Trp Ala Gln Asp Pro Ser Gln Glu Asn Lys Lys Lys Thr Val 370 375 380	1152
gtg gac ttt gag acc gat gtc ctc ttc ctg gtg ccc acc gag att gcc Val Asp Phe Glu Thr Asp Val Leu Phe Leu Val Pro Thr Glu Ile Ala 385 390 395 400	1200
cta gcc cag cac aga gcc aat gcc aag agt gcc aag acc tac gcc tac Leu Ala Gln His Arg Ala Asn Ala Lys Ser Ala Lys Thr Tyr Ala Tyr 405 410 415	1248

ctg ttt tcc cat ccc tct cggtatgc ccc gtc tac ccc aaa tgg gtg ggg Leu Phe Ser His Pro Ser Arg Met Pro Val Tyr Pro Lys Trp Val Gly 420 425 430	1296
gcc gac cat gca gat gac att cag tac gtt ttc ggg aag ccc ttc gcc Ala Asp His Ala Asp Asp Ile Gln Tyr Val Phe Gly Lys Pro Phe Ala 435 440 445	1344
acc ccc acg ggc tac cggtccaa gac agg aca gtc tct aag gcc atg Thr Pro Thr Gly Tyr Arg Pro Gln Asp Arg Thr Val Ser Lys Ala Met 450 455 460	1392
atc gcc tac tgg acc aac ttt gcc aaa aca ggg gac ccc aac atg ggc Ile Ala Tyr Trp Thr Asn Phe Ala Lys Thr Gly Asp Pro Asn Met Gly 465 470 475 480	1440
gac tcg got gtg ccc aca cac tgg gaa ccc tac act acg gaa aac agc Asp Ser Ala Val Pro Thr His Trp Glu Pro Tyr Thr Glu Asn Ser 485 490 495	1488
ggc tac ctg gag atc acc aag aag atg ggc agc agc tcc atg aag cggt Gly Tyr Leu Glu Ile Thr Lys Lys Met Gly Ser Ser Ser Met Lys Arg 500 505 510	1536
agc ctg aga acc aac ttc ctg cgc tac tgg acc ctc acc tat ctg gcg Ser Leu Arg Thr Asn Phe Leu Arg Tyr Trp Thr Leu Thr Tyr Leu Ala 515 520 525	1584
ctg ccc aca gtg acc gac cag gag gcc acc cct gtg ccc ccc aca ggg Leu Pro Thr Val Thr Asp Gln Glu Ala Thr Pro Val Pro Pro Thr Gly 530 535 540	1632
gac tcc gag gcc act ccc gtg ccc ccc acg ggt gac tcc gag acc gcc Asp Ser Glu Ala Thr Pro Val Pro Pro Thr Gly Asp Ser Glu Thr Ala 545 550 555 560	1680
ccc gtg ccg ccc acg ggc gac tcc ggg gcc ccc ccc gtg ccg ccc acg Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr 565 570 575	1728
ggt gac tcc ggg gcc ccc cct gtg ccc ccc acg ggt gac tct gag gct Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser Glu Ala 580 585 590	1776
gcc cct gtg ccc ccc aca ggt gac tcc aag gaa gct cag atg cct gca Ala Pro Val Pro Pro Thr Gly Asp Ser Lys Glu Ala Gln Met Pro Ala 595 600 605	1824
gtc att agg ttt tag Val Ile Arg Phe 610	1839

<211> 612
<212> PRT
<213> Homo sapiens

<400> 11

Ala Lys Leu Gly Ala Val Tyr Thr Glu Gly Gly Phe Val Glu Gly Val
1 5 10 15

Asn Lys Lys Leu Gly Leu Leu Gly Asp Ser Val Asp Ile Phe Lys Gly
20 25 30

Ile Pro Phe Ala Ala Pro Thr Lys Ala Leu Glu Asn Pro Gln Pro His
35 40 45

Pro Gly Trp Gln Gly Thr Leu Lys Ala Lys Asn Phe Lys Lys Arg Cys
50 55 60

Leu Gln Ala Thr Ile Thr Gln Asp Ser Thr Tyr Gly Asp Glu Asp Cys
65 70 75 80

Leu Tyr Leu Asn Ile Trp Val Pro Gln Gly Arg Lys Gln Val Ser Arg
85 90 95

Asp Leu Pro Val Met Ile Trp Ile Tyr Gly Gly Ala Phe Leu Met Gly
100 105 110

Ser Gly His Gly Ala Asn Phe Leu Asn Asn Tyr Leu Tyr Asp Gly Glu
115 120 125

Glu Ile Ala Thr Arg Gly Asn Val Ile Val Val Thr Phe Asn Tyr Arg
130 135 140

Val Gly Pro Leu Gly Phe Leu Ser Thr Gly Asp Ala Asn Leu Pro Gly
145 150 155 160

Asn Tyr Gly Leu Arg Asp Gln His Met Ala Ile Ala Trp Val Lys Arg
165 170 175

Asn Ile Ala Ala Phe Gly Gly Asp Pro Asn Asn Ile Thr Leu Phe Gly
180 185 190

Glu Ser Ala Gly Gly Ala Ser Val Ser Leu Gln Thr Leu Ser Pro Tyr
195 200 205

Asn Lys Gly Leu Ile Arg Arg Ala Ile Ser Gln Ser Gly Val Ala Leu
210 215 220

Ser Pro Trp Val Ile Gln Lys Asn Pro Leu Phe Trp Ala Lys Lys Val
225 230 235 240

Ala Glu Lys Val Gly Cys Pro Val Gly Asp Ala Ala Arg Met Ala Gln
245 250 255

Cys Leu Lys Val Thr Asp Pro Arg Ala Leu Thr Leu Ala Tyr Lys Val

260	265	270
Pro Leu Ala Gly Leu Glu Tyr Pro Met Leu His Tyr Val Gly Phe Val		
275	280	285
Pro Val Ile Asp Gly Asp Phe Ile Pro Ala Asp Pro Ile Asn Leu Tyr		
290	295	300
Ala Asn Ala Ala Asp Ile Asp Tyr Ile Ala Gly Thr Asn Asn Met Asp		
305	310	315
Gly His Ile Phe Ala Ser Ile Asp Met Pro Ala Ile Asn Lys Gly Asn		
325	330	335
Lys Lys Val Thr Glu Glu Asp Phe Tyr Lys Leu Val Ser Glu Phe Thr		
340	345	350
Ile Thr Lys Gly Leu Arg Gly Ala Lys Thr Thr Phe Asp Val Tyr Thr		
355	360	365
Glu Ser Trp Ala Gln Asp Pro Ser Gln Glu Asn Lys Lys Lys Thr Val		
370	375	380
Val Asp Phe Glu Thr Asp Val Leu Phe Leu Val Pro Thr Glu Ile Ala		
385	390	395
Leu Ala Gln His Arg Ala Asn Ala Lys Ser Ala Lys Thr Tyr Ala Tyr		
405	410	415
Leu Phe Ser His Pro Ser Arg Met Pro Val Tyr Pro Lys Trp Val Gly		
420	425	430
Ala Asp His Ala Asp Asp Ile Gln Tyr Val Phe Gly Lys Pro Phe Ala		
435	440	445
Thr Pro Thr Gly Tyr Arg Pro Gln Asp Arg Thr Val Ser Lys Ala Met		
450	455	460
Ile Ala Tyr Trp Thr Asn Phe Ala Lys Thr Gly Asp Pro Asn Met Gly		
465	470	475
Asp Ser Ala Val Pro Thr His Trp Glu Pro Tyr Thr Glu Asn Ser		
485	490	495
Gly Tyr Leu Glu Ile Thr Lys Lys Met Gly Ser Ser Ser Met Lys Arg		
500	505	510
Ser Leu Arg Thr Asn Phe Leu Arg Tyr Trp Thr Leu Thr Tyr Leu Ala		
515	520	525
Leu Pro Thr Val Thr Asp Gln Glu Ala Thr Pro Val Pro Pro Thr Gly		
530	535	540
Asp Ser Glu Ala Thr Pro Val Pro Pro Thr Gly Asp Ser Glu Thr Ala		
545	550	555
		560

Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr
 565 570 575

Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser Glu Ala
 580 585 590

Ala Pro Val Pro Pro Thr Gly Asp Ser Lys Glu Ala Gln Met Pro Ala
 595 600 605

Val Ile Arg Phe
 610

<210> 12
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1)..(747)

<400> 12
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Phe Asp Val Tyr Thr Glu Ser Trp Ala Gln Asp Pro Ser Gln Glu Asn
1 5 10 15

aag aag aag act gtg gtg gac ttt gag acc gat gtc ctc ttc ctg gtg 96
Lys Lys Lys Thr Val Val Asp Phe Glu Thr Asp Val Leu Phe Leu Val
20 25 30

ccc acc gag att gcc cta gcc cag cac aga gac aat gcc aag agt gcc 144
Pro Thr Glu Ile Ala Leu Ala Gln His Arg Ala Asn Ala Lys Ser Ala
35 40 45

aag acc tac gcc tac ctg ttt tcc cat ccc tct cggtt ccc gtc tac 192
Lys Thr Tyr Ala Tyr Leu Phe Ser His Pro Ser Arg Met Pro Val Tyr
50 55 60

ccc aaa tgg gtg ggg gcc gac cat gca gat gac att cag tac gtt ttc 240
Pro Lys Trp Val Gly Ala Asp His Ala Asp Asp Ile Gln Tyr Val Phe
65 70 75 80

ggg aag ccc ttc gcc acc ccc acg ggc tac cggtt ccc caa gac agg aca 288
Gly Lys Pro Phe Ala Thr Pro Thr Gly Tyr Arg Pro Gln Asp Arg Thr
85 90 95

gtc tct aag gcc atg atc gcc tac tgg acc aac ttt gcc aaa aca ggg 336
Val Ser Lys Ala Met Ile Ala Tyr Trp Thr Asn Phe Ala Lys Thr Gly
100 105 110

gac ccc aac atg ggc gac tcg gct gtg ccc aca cac tgg gaa ccc tac 384
Asp Pro Asn Met Gly Asp Ser Ala Val Pro Thr His Trp Glu Pro Tyr
115 120 125

act acg gaa aac agc ggc tac ctg gag atc acc aag aag atg ggc agc Thr Thr Glu Asn Ser Gly Tyr Leu Glu Ile Thr Lys Lys Met Gly Ser 130 135 140	432
agc tcc atg aag cgg agc ctg aga acc aac ttc ctg cgc tac tgg acc Ser Ser Met Lys Arg Ser Leu Arg Thr Asn Phe Leu Arg Tyr Trp Thr 145 150 155 160	480
ctc acc tat ctg gcg ctg ccc aca gtg acc gac cag gag gcc acc cct Leu Thr Tyr Leu Ala Leu Pro Thr Val Thr Asp Gln Glu Ala Thr Pro 165 170 175	528
gtg ccc ccc aca ggg gac tcc gag gcc act ccc gtg ccc ccc acg ggt Val Pro Pro Thr Gly Asp Ser Glu Ala Thr Pro Val Pro Pro Thr Gly 180 185 190	576
gac tcc gag acc gcc ccc gtg ccg ccc acg ggc gac tcc ggg gcc ccc Asp Ser Glu Thr Ala Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro 195 200 205	624
ccc gtg ccg ccc acg ggt gac tcc ggg gcc ccc cct gtg ccc ccc acg Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr 210 215 220	672
ggt gac tct gag gct gcc cct gtg ccc ccc aca ggt gac tcc aag gaa Gly Asp Ser Glu Ala Ala Pro Val Pro Pro Thr Gly Asp Ser Lys Glu 225 230 235 240	720
gct cag atg cct gca gtc att agg ttt tag Ala Gln Met Pro Ala Val Ile Arg Phe 245	750

<210> 13
<211> 249
<212> PRT
<213> Homo sapiens

<400> 13

Phe Asp Val Tyr Thr Glu Ser Trp Ala Gln Asp Pro Ser Gln Glu Asn
1 5 10 15

Lys Lys Lys Thr Val Val Asp Phe Glu Thr Asp Val Leu Phe Leu Val
20 25 30

Pro Thr Glu Ile Ala Leu Ala Gln His Arg Ala Asn Ala Lys Ser Ala
35 40 45

Lys Thr Tyr Ala Tyr Leu Phe Ser His Pro Ser Arg Met Pro Val Tyr
50 55 60

Pro Lys Trp Val Gly Ala Asp His Ala Asp Asp Ile Gln Tyr Val Phe
65 70 75 80

Gly Lys Pro Phe Ala Thr Pro Thr Gly Tyr Arg Pro Gln Asp Arg Thr
 85 90 95

 Val Ser Lys Ala Met Ile Ala Tyr Trp Thr Asn Phe Ala Lys Thr Gly
 100 105 110

 Asp Pro Asn Met Gly Asp Ser Ala Val Pro Thr His Trp Glu Pro Tyr
 115 120 125

 Thr Thr Glu Asn Ser Gly Tyr Leu Glu Ile Thr Lys Lys Met Gly Ser
 130 135 140

 Ser Ser Met Lys Arg Ser Leu Arg Thr Asn Phe Leu Arg Tyr Trp Thr
 145 150 155 160

 Leu Thr Tyr Leu Ala Leu Pro Thr Val Thr Asp Gln Glu Ala Thr Pro
 165 170 175

 Val Pro Pro Thr Gly Asp Ser Glu Ala Thr Pro Val Pro Pro Thr Gly
 180 185 190

 Asp Ser Glu Thr Ala Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro
 195 200 205

 Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr
 210 215 220

 Gly Asp Ser Glu Ala Ala Pro Val Pro Pro Thr Gly Asp Ser Lys Glu
 225 230 235 240

 Ala Gln Met Pro Ala Val Ile Arg Phe
 245

<210> 14
 <211> 11
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (3)..(3)
 <223> Xaa is Glu or Gly

<220>
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 <223> Xaa is Glu or Gly

<400> 14

Asp Ser Xaa Ala Pro Pro Val Pro Pro Thr Xaa
 1 5 10